

#3

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Xi et al.

PATENT APPLICATION

Serial No: unassigned

Group Art Unit: unassigned

Filed: October 3, 2000

Examiner: unassigned

For: METHOD AND APPARATUS FOR DEPOSITING REFRACTORY
METAL LAYERS EMPLOYING SEQUENTIAL DEPOSITION
TECHNIQUES TO FORM A NUCLEATION LAYER

Information Disclosure Statement

Hon. Assistant Commissioner

for Patents

Washington, D.C. 20231

Sir:

The following information is submitted in compliance with Applicants' duty of disclosure under 37 C.F.R. § 1.56. A copy of each reference recited below accompanies this document.

PATENT DOCUMENTS

<u>Patent Number</u>	<u>Inventor</u>	<u>Grant Date</u>
5,879,459	Gadgil et al.	Mar. 9, 1999
5,443,647	Aucoin et al.	Aug. 22, 1995
5,374,570	Nasu et al.	Dec. 20, 1994
5,173,474	Connell et al.	Dec. 22, 1992
5,028,565	Chang et al.	Jul. 2, 1991
5,972,430	DiMeo, Jr. et al.	Oct. 26, 1999
5,916,365	Sherman	June 29, 1999

Patent Application Number

09/625,336

Inventor

Kori et al.

Filing Date

July 27, 2000

NON-PATENT DOCUMENTS

Choi et al. The Effect of Annealing on Resistivity of Low Pressure Chemical Vapor Deposited Titanium Diboride, J. Appl. Phys. 69 (11), 1 June 1991. Pages 7853-7861.

Choi et al. Stability of TiB_2 as a Diffusion Barrier on Silicon, J. Electrochem. Soc., Vol. 138, No. 10, October 1991. Pages 3062-3067.

Respectfully submitted,



Kenneth C. Brooks
Reg. No. 38,393

Under the Paper Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**TRANSMITTAL
FORM**

(to be used for all correspondence after initial filing)

Total Number of Pages in this Submission

5

Application Number

Unassigned

Filing Date

Oct 3, 2000

First Named Inventor

Xi, Ming

Group Art Unit

Unassigned

Examiner Name

Unassigned

Attorney Docket Number

4714 P1/AMI-00-11

ENCLOSURES (check all that apply)☐ Fee Transmittal Form☐ Fee Attached☐ Amendment / Response☐ After Final☐ Affidavits/declaration(s)☐ Extension of Time Request☐ Express Abandonment Request☒ Information Disclosure Statement☐ Certified Copy of Priority Document(s)☐ Response to Missing Parts/Incomplete Application☐ Response to Missing Parts under 37 CFR 1.52 or 1.53☐ Assignment Papers (for an Application)☐ Drawing(s)☐ Licensing-related Papers☐ Petition Routing Slip (PTO/SB/69) and Accompanying Petition☐ To Convert a Provisional Application☐ Power of Attorney, Revocation Change of Correspondence Address☐ Terminal Disclaimer☐ Small Entity Statement☐ Request of Refund

Remarks

☐ After Allowance Communication to Group☐ Appeal Communication to Board of Appeals and Interferences☐ Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)☐ Proprietary Information☐ Status Letter☒ Additional Enclosure(s) (please identify below):

Copies of nine (9) references cited

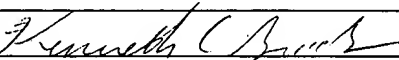
Return Receipt Postcard to Kenneth C. Brooks

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name

Law Office of Kenneth C. Brooks

Signature



Date

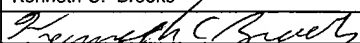
October 10, 2000

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on this date: 10-10-2000

Type or printed name Kenneth C. Brooks

Signature



Date

October 10, 2000

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.